

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Vignita 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/575,110	05/23/2000	Simon Robert Walmsley	PEC03US	9118
24011	7590 07/07/2003			
	OOK RESEARCH PT	EXAMINER		
393 DARLING BALMAIN,	2041	LAMB, TWYLER MARIE		
AUSTRALIA			ART UNIT	PAPER NUMBER
			2622	5
			DATE MAILED: 07/07/2003	5

Please find below and/or attached an Office communication concerning this application or proceeding.

 		Applic	ation No.	Applicant(s)				
Office Action Summary								
			5,1-10		WALMSLEY, SIMON ROBERT			
	<i></i>	Examir		Art Unit				
	The MAILING DATE of this communica		M. Lamb	2622	ddress			
Period for Reply								
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICAL MISSIONS of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum statute to reply within the set or extended period for reply will eply received by the Office later than three months after dependent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no ication. days, a reply within the story period will apply and I, by statute, cause the statute.	event, however, ma statutory minimum o d will expire SIX (6) application to becom	ay a reply be timely filed If thirty (30) days will be considered time MONTHS from the mailing date of this one ABANDONED (35 U.S.C. § 133).				
1) 🖂	Responsive to communication(s) filed on 5/23/00.							
2a)□		o)⊠ This action	ı is non-final.					
3)	Since this application is in condition for	,—		matters, prosecution as to the	he merits is			
,	closed in accordance with the practic							
·	on of Claims							
,	Claim(s) 1-10 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
· <u> </u>	Claim(s) is/are allowed.							
i	Claim(s) <u>1 and 6-10</u> is/are rejected.							
·	7)⊠ Claim(s) <u>2-5</u> is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement.							
-	on Papers	on and/or election	n requirement.					
	The specification is objected to by the B	Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
* 5	 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachmen	t(s)							
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTC nation Disclosure Statement(s) (PTO-1449) Pap			riew Summary (PTO-413) Paper No e of Informal Patent Application (PT :				
S. Patent and Trademark Office								

Application/Control Number: 09/575,110

Art Unit: 2622

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, and 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Silverbrook (US 5,805,178) in view of Harrington et al. (Harrington) (US 5,737,455).

With regard to claims 1, and 6-10, Silverbrook discloses a print engine/controller (Figure 4, head driver circuit) to drive an ink drop print head comprising: an interface at which to receive compressed page data (col 24, lines 12-44); decoders (decoder 405) to decode respective types of image planes in the received compressed page data (col 28, lines 5-20); and a half-toner/compositor to composite image plane data (col 33, lines 43-60).

Silverbrook differs from claim 1 in that he doesn't teach the half-toner/compositor including: a dot merger unit taking bits from the respective planes as inputs; and a color mask register holding masking bits in number equal to the number of image planes; respective input bits to the dot merger unit being ANDed with respective color mask register bits and the resultant bits Ored together to form an output bit in a channel for which there is an ink at the print head.

Application/Control Number: 09/575,110

Art Unit: 2622

Harrington discloses an apparatus for combining antialiased edges that includes the half-toner/compositor including: a dot merger unit taking bits from the respective planes as inputs; and a color mask register holding masking bits in number equal to the number of image planes; respective input bits to the dot merger unit being ANDed with respective color mask register bits and the resultant bits Ored together to form an output bit in a channel for which there is an ink at the print head (col 7, line 25 – col 8, line 7).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Silverbrook to include the half-toner/compositor including: a dot merger unit taking bits from the respective planes as inputs; and a color mask register holding masking bits in number equal to the number of image planes; respective input bits to the dot merger unit being ANDed with respective color mask register bits and the resultant bits Ored together to form an output bit in a channel for which there is an ink at the print head as taught by Harrington. It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Silverbrook by the teaching of Harrington to obtain the background pixel values as taught by Harrington in col 7, line 25 – col 8, line 7.

Allowable Subject Matter

3. Claims 2-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Application/Control Number: 09/575,110

Art Unit: 2622

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Twyler Lamb whose telephone number is 703 - 308-8823. The examiner can normally be reached on M-TH (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L Coles can be reached on 703-308-4712. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-6036 for regular communications and 703-872-9314 for After Final communications.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, DC 20231

or faxed to:

(703) 872-9314

(for informal or draft communications, such as proposed amendments to be discussed at an interview; please label such communications "PROPOSED" or "DRAFT")

or hand-carried to:

Crystal Park Two

2121 Crystal Drive

Arlington. VA.

Sixth Floor (Receptionist)

Twyler Lamb

June 29, 2003